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# (12) UK Patent Application (19) GB (11) 2 310 344 (13) A

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(51) INT CL<sup>6</sup>

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EP 0148458 A2 US 4748685 A US 4639550 A

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ONLINE DATABASE:WPI

(54) Transmitting data between mobile unit and base unit via battery charging contacts

(57) A wireless communication system has a base unit 122 with a battery charger 212, and a mobile unit 126 (e.g cordless or cellular phone) having a battery 204 which may be detachable. When the mobile unit is placed in the base unit, data is transmitted between base unit and mobile unit via battery charging contacts 214, 216 and 220,222. For data transmission to the mobile unit, the charging current is pulsed with varying time intervals. A voltage measuring circuit such as an A/D converter connected across contacts 228, 230 detects momentary variations in the battery voltage caused by the charging pulses in order to interpret the data. For data transmission to the base unit, the load on the battery is varied by for example enabling or disabling components in the mobile unit so that the base station decodes variations in the battery voltage in the same manner. Channel or frequency information or repertory dialing information can be sent to the mobile unit from a wide area network via the base unit.

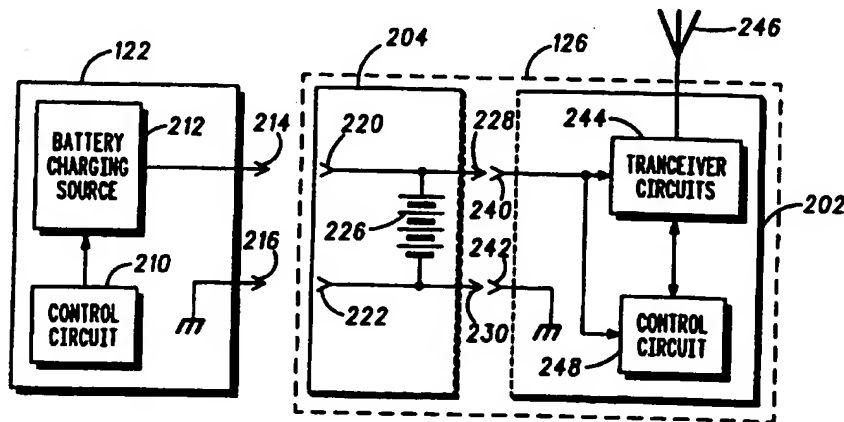


FIG. 2

GB 2 310 344 A

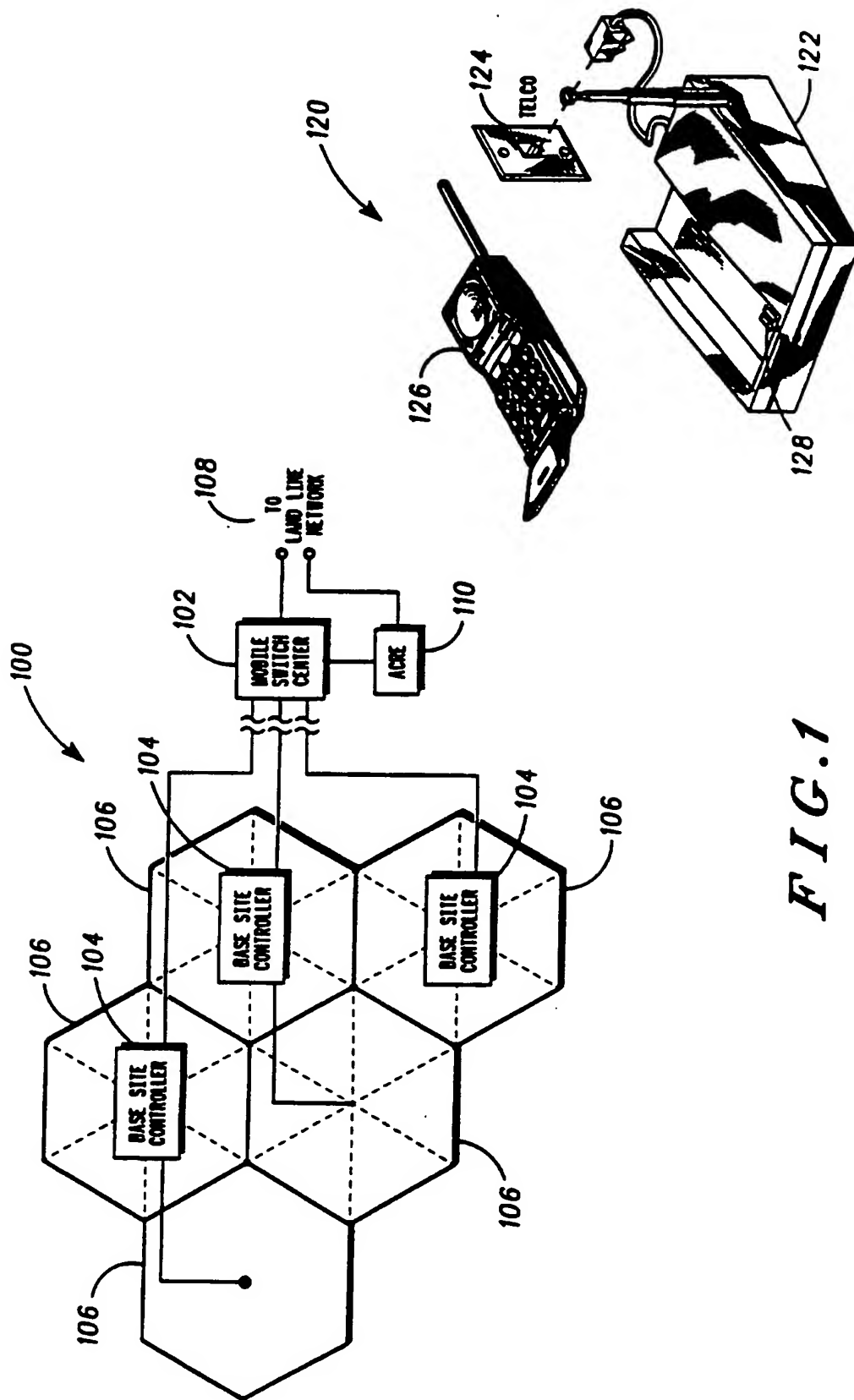


FIG. 1

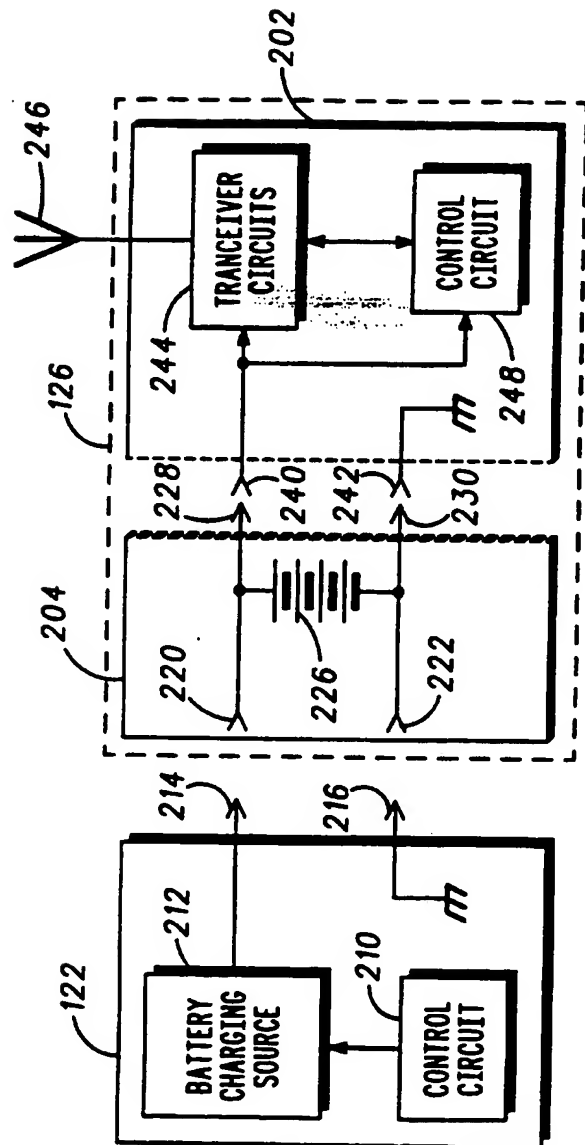


FIG. 2

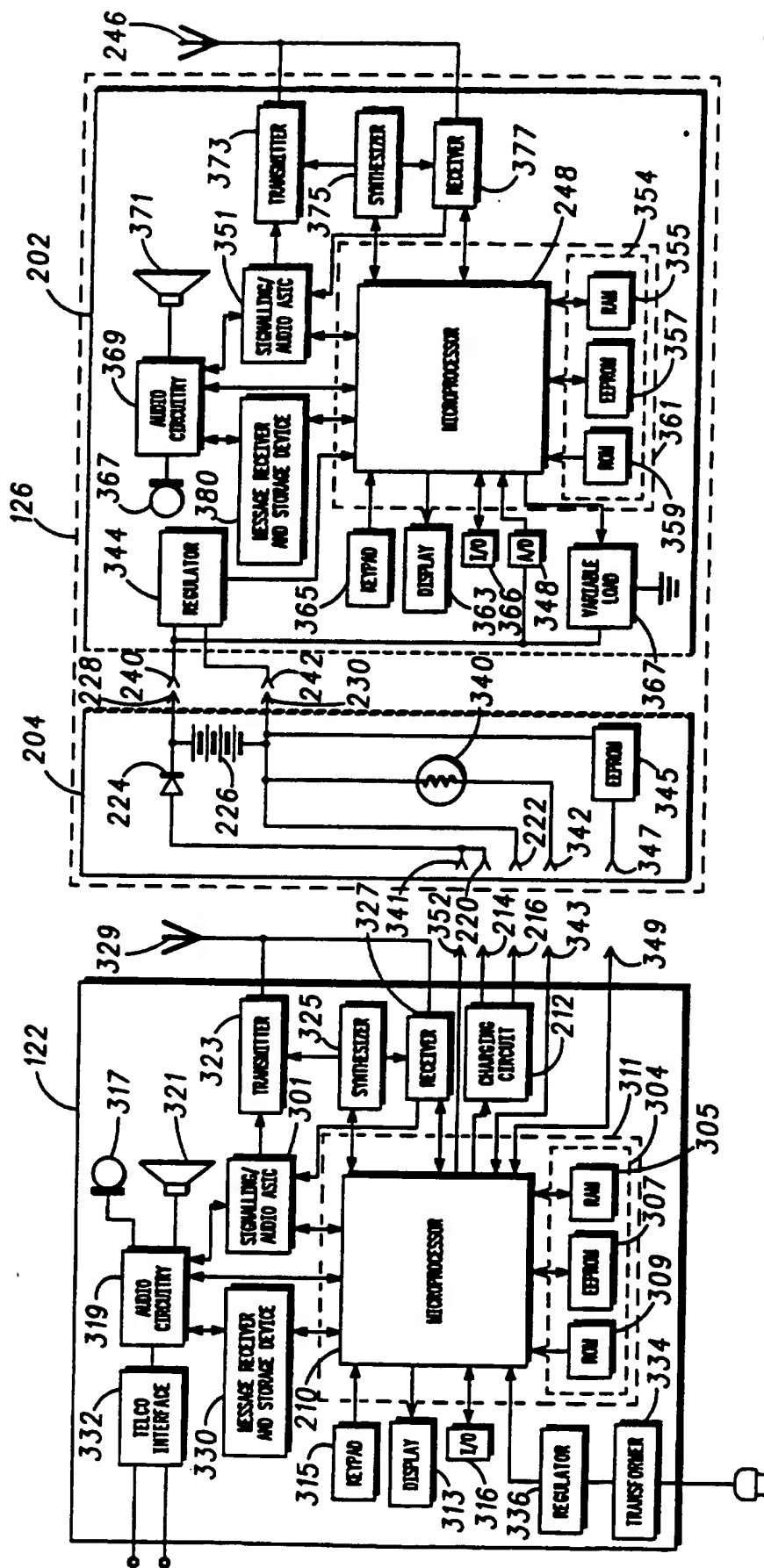


FIG. 3

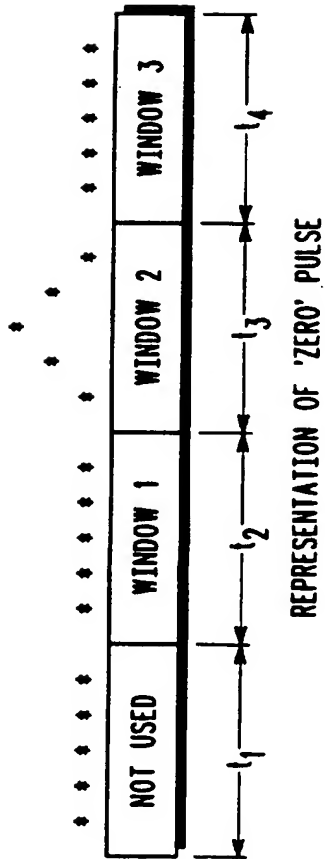


FIG. 4

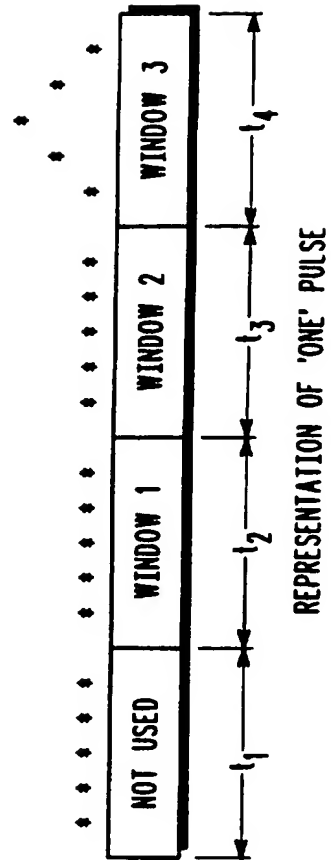
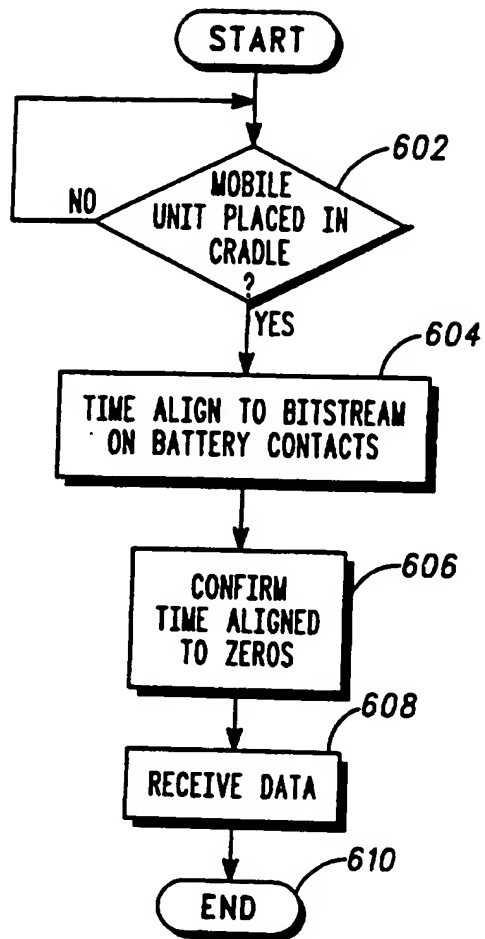
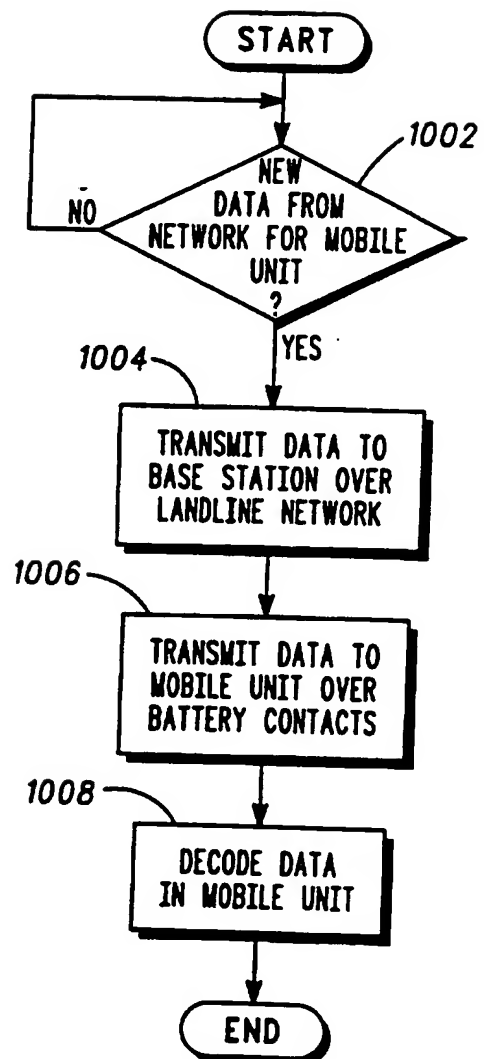


FIG. 5

**FIG. 6****FIG. 10**